

PATENT CLAIMS

1. Method for routing of information packets by means of distributed routing protocols in just any network,
5 c h a r a c t e r i z e d in that an External Route Manager (ERM) is utilized to effect a plurality of not distributed routing algorithms in said just any network as a complement to routing algorithms which are utilized by said distributed routing protocol.

10 2. Method according to patent claim 1,
c h a r a c t e r i z e d in that said ERM establishes at least one explicit route in said just any network which replaces the route which is determined by said distributed routing protocol.

15 3. Method according to patent claim 2,
c h a r a c t e r i z e d in that said explicit route is upheld until it is no longer needed, or until it is no longer valid due to that an error has occurred.

20 4. Method according to patent claim 3,
c h a r a c t e r i z e d in that said error is link error, error in computers, routers which uphold said explicit route.

2 5. Method according to patent claim 3 or 4,
c h a r a c t e r i z e d in that when said explicit route
25 no longer shall be used, concerned traffic reverts to following the route which said distributed routing protocol has selected.

30 6. Method according to patent claim 5,
c h a r a c t e r i z e d in that when traffic reverts to following the route which said distributed routing protocol

has selected, is secured that no routing loops arises, at which, if routing loops yet arise, they are detected and broken.

7. Method according to patent claim 6,
5 c h a r a c t e r i z e d in that said ERM operates according to the steps to:

- check that suggested explicit route is free from loops;
- check whether potential loops may arise
10 and identify where such loops may arise;
- prevent the emergence of potential loops;
- detect errors along established, explicit route;
- break arisen loop.

15 8. Method according to ~~any of the patent claims 1-7,~~
c h a r a c t e r i z e d in that said just any network is an IP-network.

9. Device for routing of information packets by means of distributed routing protocols in just any network,
20 c h a r a c t e r i z e d in that an External Route Manager (ERM) is arranged to effect a plurality of not distributed routing algorithms in said just any network as a complement to routing algorithms which are utilized by said distributed routing protocol.

25 10. Device according to patent claim 9,
c h a r a c t e r i z e d in that said ERM includes an ERMMap and an ERMrp, at which said ERMMap interacts with said ERMrp to establish and uphold explicit routes and prevent the emergence of loops by specifying measures at errors
30 which can cause loops.

11. Device according to patent claim 10,
c h a r a c t e r i z e d in that said ERMap is arranged in
the machine which has functions to calculate explicit
routes, and said ERMrp is arranged in all routers which are
5 involved in the explicit routes which are established via
said ERM.

12. Device according to patent claim 11,
c h a r a c t e r i z e d in that said ERMap is arranged to
check that suggested explicit routes are free from lopes,
10 to check whether potential loops may arise, and identify
where such loops may arise, to prevent the emergence of
potential loops.

13. Device according to patent claim 12,
c h a r a c t e r i z e d in that said ERMrp is arranged to
15 detect errors along established explicit routes and prevent
or break loops.

14. Device according to ^{claim 9} ~~any of the patent claims 9-13~~,
c h a r a c t e r i z e d in that said just any network is
an IP-network.

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